

Proposed Automotive Refinish Coatings SCM

Fifth Public Workshop
August 23, 2005
Diamond Bar

California Environmental Protection Agency

 **Air Resources Board**

California Air Resources Board (ARB)

Public Workshop on the Proposed Suggested Control Measure for Automotive Refinish Coatings

August 23, 2005

11:00 a.m. to 1:00 p.m. (PST)

South Coast Air Quality Management District
Diamond Bar, California

AGENDA

1. Introductions

2. ARB Staff Presentation (Proposed SCM)

3. Questions/Open Discussion

4. Next Steps

Overview

- ◆ **Background**
- ◆ **Proposed SCM for Automotive Refinish Coatings**
- ◆ **Schedule**
- ◆ **Questions/Open Discussion**

Automotive Refinish Coatings SCM

Background

- ◆ Local districts regulate VOC emissions from automotive coatings
- ◆ Twenty districts have local rules
- ◆ Fifteen districts have National Rule VOC limits

Automotive Refinish Coatings SCM

Background

- ◆ ARB has oversight authority
- ◆ Provides technical assistance -

Development of the SCM

- ◆ SCM serves as a model rule for districts

Automotive Refinish Coatings SCM

SCM Objectives:

- ◆ Increase consistency among district rules
- ◆ Improve rule enforceability
- ◆ Protect public health by reducing VOC emissions

Automotive Refinish Coatings SCM

Overview of SCM Proposal

- ◆ Combines Group I and Group II VOC limits
- ◆ Eliminates the composite VOC limit for multistage systems
- ◆ Combines coating categories
- ◆ Replaces specialty coatings categories with specific categories

Automotive Refinish Coatings SCM

Overview of SCM Proposal

(continued)

- ◆ Establishes VOC limits based on available technology
- ◆ Establishes prohibition of possession
- ◆ Lowers the VOC limit for solvents used in cleaning operations to 25 grams per liter
- ◆ Simplifies recordkeeping
- ◆ Improves labeling

Automotive Refinish Coatings SCM

Key Changes to SCM Proposal

- ◆ TBAC is added to the VOC exemption list
- ◆ Two additional coating categories
- ◆ Extended implementation to 2009

Automotive Refinish Coatings SCM

Proposed Coating Categories

Existing Coating Category

Proposed Coating Category

Pretreatment Wash Primer



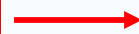
Pretreatment Coating

Adhesion Promoter
Plastic Primer



Adhesion Promoter

Precoat
Primer
Primer Surfacer
Primer Sealer
Flexible Primers



Primer

Automotive Refinish Coatings SCM

Proposed Coating Categories (continued)

Existing Coating Category

Proposed Coating Category

Multi-stage Topcoat System
(color portion)
Camouflage



Color Coat

Multi-colored



Multi-Color Coating

Uniform Finish Coating



Uniform Finish Coating

Automotive Refinish Coatings SCM

Proposed Coating Categories (continued)

Existing Coating Category

Multi-stage Topcoat System
(clear portion)

Multi-colored Multi-Stage
(clear portion)

Elastomeric Clears

Topcoat

Single-Stage Coating

Metallic/Iridescent Topcoat

Truck Bed Liner Coating

Proposed Coating Category

→ **Clear Coat**

→ **Single-Stage Coating**

→ **Truck Bed Liner Coating**



Automotive Refinish Coatings SCM

Proposed Coating Categories (continued)

Existing Coating Category

Temporary Protective



Proposed Coating Category

Temporary Protective Coating

Rubberized Asphaltic Underbody



Underbody Coating

Anti-Glare Safety Coatings
Impact Resistant Coatings
Water Holdout Coatings
Weld Thru Coatings
Bright Metal Trim Repair



Any Other Coating Type

Automotive Refinish Coatings SCM

Proposed VOC limits effective 1/1/09

| <i>Coating Category</i> | <i>proposed VOC limit</i> | <i>current SC VOC limit</i> |
|------------------------------|-------------------------------|---------------------------------|
| Adhesion Promoter | 540 * | 840 |
| Clear Coat | 250 | 250 |
| Color Coat | 420 | 760 |
| Multi-color Coating | 680 | 685 |
| Pretreatment Coating | 660 * | 780 |
| Primer | 250 | 250/340 |
| Single-Stage Coating | 340 | 340 |
| Temporary Protective Coating | 60 | NA |
| Truck Bed Liner Coating | 310 | 420 |
| Underbody Coating | 430 | 840 |
| Uniform Finish Coating | 540 | 840 |
| Any Other Coating Type | 250 | NA |



Automotive Refinish Coatings SCM

Benefits of the Proposed SCM

- ◆ Total estimated emissions from this category are 20.7 tons per day
- ◆ Preliminary estimates indicate the proposed SCM would reduce emissions by 13 tons per day

Automotive Refinish Coatings SCM

Potential Impacts on Body Shops

- ◆ Use lower VOC Coatings (possibly water-borne color)
- ◆ Train Paint Technicians
- ◆ Air Movement and Heating Equipment

Automotive Refinish Coatings SCM

Potential Cost Impacts

Shop Size

Annual Gross Revenue

Small

Less than one million dollars

Medium

Between one and three million dollars

Large

More than three million dollars

Assumptions:

- ◆ Shops have to convert mixing bank to water-borne coatings
- ◆ Painter(s) must be retrained

Cost range: \$7,000 to \$50,000 per booth

Automotive Refinish Coatings Fifth Public Workshop – August 2005



Automotive Refinish Coatings SCM

Air Movement Systems



Automotive Refinish Coatings SCM

- ◆ **Comments on draft SCM regulatory language by August 30, 2005**

Automotive Refinish Coatings SCM

Schedule

- ◆ **September 20, 2005:**
Proposed SCM and Staff Report
- ◆ **October 20, 2005:**
Tentative Board Hearing Date

Automotive Refinish Coatings SCM

Public Involvement

- **Website:**

<http://www.arb.ca.gov/coatings/autorefin/scm/scm.htm>

- **Sign up for List Server to get updates**

- **Provide Comments**

- **Meet with ARB**

- **Attend Board Hearing**
(can participate via internet)

ARB Points of Contact

David Mehl
dmehl@arb.ca.gov
(916) 324-8177

Jose Gomez, Manager
jgomez@arb.ca.gov
(916) 324-8033

ARB
Stationary Source Division
Measures Assessment Branch
1001 I Street, P.O. Box 2815
Sacramento, CA 95812

QUESTIONS?